

FIBERS SITE GROUP

December 10, 2015

Via Email Electronic Copy

Adalberto Bosque, PhD, MBA, REM, CEA
Response and Remediation Branch
U.S Environmental Protection Agency
City View Plaza II - Suite 7000
48 RD, 165 Km. 1.2
Guaynabo, PR 00968-8069

Subject: RD/RA Monthly Report – November 2015
Fibers Public Supply Wells Site
Guayama, Puerto Rico

Dear Mr. Bosque:

On behalf of the Fibers Public Supply Wells Site Settling Defendants, we are submitting the attached RD/RA Monthly Report prepared pursuant to the Consent Decree (Civil Action No. 92-2486) in the matter of *United States v. Anaquest Caribe, Inc. et al*, Section IX, Paragraph 30, Reporting Requirements.

Please feel free to contact Mr. James Kirschner of ARCADIS at (602) 797-4519 or me at (724) 544-4874 if you have any questions or comments regarding this submittal.

Sincerely,



Joe Biss, CHMM
Fibers Site Group Project Coordinator
EHS Support LLC

Copies:

Chief, New York/Caribbean Superfund Branch, Attn. Mel Hauptman- via email only
Ms. Evelyn Rivera-Ocasio, Assitant Regional Counsel – Carribean Programs – via email only
Chief, Environmental Enforcement Division, U.S. Department of Justice (DOJ #90-11-2-768)
Amarilis Rodríguez Méndez, State Remedial Project Manager, Puerto Rico Environmental Quality Board- via email only
Ms. Katherine Mishkin, Hydrolgeologist, USEPA Superfund Technical Support Section – via email only
Ms. Enid Díaz, Departamento de Recursos Naturales y Ambientales
Mr. Jorge Morales, PRIDCO - via email only
Mr. Joel Melendez Rodriguez, PRIDCO - via email only
Ms. Ana Palou Balsa, PRIDCO – via email only
Mr. Dan Vineyard, Jackson Walker- via email only
James Kirschner, Arcadis - via email only

RD/RA Monthly Report – November 2015
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

(a) Description of actions which have been taken toward achieving compliance with this Decree.

Fibers Air Stripping System

The Fibers groundwater extraction and treatment system (GWETS) was operational for approximately 70% of the time during November 2015.

The GWETS had an automated shut down for 1 day due to a local power failure, and was then started at the Site the next day. The GWETS had another automated shut down for an additional 8 days at the end of the month due to a transfer pump fault. Performed maintenance on transfer pumps TP-201 and TP-202 on November 30, 2015; observed and removed scale deposits inside both transfer pumps. The system was restarted on December 1, 2015.

A summary of the daily treatment system operating records is presented in Table 1. The GWETS average flow rates are depicted on Figure 1.

The GWETS operated at an average flow rate of 191 gallons per minute (gpm) and treated approximately 8.34 million gallons of water in November 2015. To date (since May 1999), approximately 2.90 billion gallons of water have been treated at the Fibers Site.

(b) Summary of all sampling results and tests, and all other data received or generated by Settling Defendants.

The Fibers Site Group received groundwater laboratory analytical data from the second semi-annual groundwater monitoring event of 2015. The validated laboratory analytical data will be submitted with the second semi-annual groundwater monitoring and sampling report for 2015.

Groundwater influent and effluent samples were collected and analyzed in November 2015. A summary of the November 2015 GWETS laboratory analytical results are provided in Table 2. A summary of influent groundwater concentrations of tetrachloroethene (PCE) and total haloethers from the new GWETS is depicted on Figures 2 and 3, respectively.

Arcadis U.S. Inc. (Arcadis) performed a data quality assessment (validation) of the laboratory analytical results reported by Pace Analytical Services, Inc. Results are summarized in the Data Review Report included as Attachment 1. A copy of the chain of custody and annotated sample analysis data sheets are provided as an attachment to the Data Review Report. A copy of the complete laboratory analytical report is provided as Attachment 2. A copy of the field notes documenting sample collection information, individual flow rates at the three groundwater extraction wells and treatment system parameters is provided as Attachment 3.

(c) List of all work plans, plans and other deliverables completed and submitted.

None for this reporting period.

(d) Description of all actions, including, but not limited to, data collection and implementation of work plans, which are scheduled for the next six weeks.

A Groundwater Extraction and Treatment System Sampling, Analysis and Monitoring Plan is anticipated to be submitted to the United States Environmental Protection Agency (USEPA) in

December 2015. An Operations, Maintenance, and Monitoring Manual is anticipated to be submitted to the USEPA in December 2015.

A Notice of Completion Report, with stamped engineering as-built construction drawings, is anticipated to be submitted to the USEPA in January 2016.

On behalf of Baxter, Environmental Resource Technologies (ERTEC) completed the second phase of the subsurface soil investigation at the Baxter-Guayama facility on the Fibers Site in October 2015. Upon completion of the data validation, a summary of results from ERTEC's Phase 2 subsurface investigation will be included in a subsequent monthly report.

(e) Information regarding the percentage completion, unresolved delays encountered or anticipated.

Construction Activities – 100% complete.

System Start-Up – 100% complete.

Start-Up Performance Monitoring – 100% complete.

Long-Term Operation & Maintenance Period – in progress.

(f) List of any modification to work plans or other schedules the Settling Defendants have proposed.

None.

(g) Description of activities undertaken in support of the Community Relations Plan.

No support activities have been requested for the next planning period.

(h) Actions undertaken to address outside parties concerns.

No concerns from outside parties were encountered during this reporting period.

Tables

Table 1
Summary of Daily Treatment System Operating Records - November 2015
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Recording Date	Influent Flow (gpm) ¹	Effluent Flow (gpm) ²	RW-2 (gpm) ³	RW-4 (gpm) ⁴	RW-5 (gpm) ⁵	pH ⁶	Comments
11/01/2015	339	345	115	169	54	8.1	
11/02/2015	328	333	107	175	54	8.1	
11/03/2015	315	324	86	181	55	8.1	
11/04/2015	255	255	83	138	41	8.0	
11/05/2015	332	322	97	185	54	8.0	
11/06/2015	325	332	92	185	54	8.0	
11/07/2015	221	234	67	124	37	8.0	
11/08/2015	0	0	0	0	0	8.0	Treatment system down due to power loss.
11/09/2015	164	175	55	88	26	7.9	Installation of biocide injection valve; start treatment system.
11/10/2015	245	248	79	130	37	8.0	Replace filter on sump pump; start treatment system after power loss.
11/11/2015	127	113	41	68	19	8.0	Maintenance/cleaning of air stripper.
11/12/2015	366	371	121	192	54	7.9	
11/13/2015	353	388	115	184	54	7.9	
11/14/2015	344	334	105	183	54	7.9	
11/15/2015	362	366	116	193	54	7.9	
11/16/2015	343	356	105	182	54	7.9	
11/17/2015	297	314	91	153	55	7.9	RW-2 shutdown due to water level reaching low set point.
11/18/2015	315	319	82	179	55	7.9	RW-2 shutdown due to water level reaching low set point; lower set point.
11/19/2015	265	276	7	204	56	7.9	RW-2 shutdown due to water level reaching low set point; decrease flow rate.
11/20/2015	293	312	49	197	53	7.9	RW-2 shutdown due to water level reaching low set point; decrease flow rate for RW-2 and RW-4. Transfer pump TP-201 fault.
11/21/2015	27	26	11	15	6	8.0	Transfer pumps TP-201 and TP-202 fault.
11/22/2015	122	120	51	51	26	7.9	Transfer pumps TP-201 and TP-202 fault.
11/23/2015	0	0	0	0	0	7.9	Transfer pumps TP-201 and TP-202 fault.
11/24/2015	0	0	0	0	0	7.9	Transfer pumps TP-201 and TP-202 fault.
11/25/2015	0	0	0	0	0	7.9	Transfer pumps TP-201 and TP-202 fault.
11/26/2015	0	0	0	0	0	7.9	Transfer pumps TP-201 and TP-202 fault.
11/27/2015	0	0	0	0	0	7.9	Transfer pumps TP-201 and TP-202 fault.
11/28/2015	0	0	0	0	0	7.9	Transfer pumps TP-201 and TP-202 fault.
11/29/2015	0	0	0	0	0	8.0	Transfer pumps TP-201 and TP-202 fault.

Table 1
Summary of Daily Treatment System Operating Records - November 2015
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Recording Date	Influent Flow (gpm) ¹	Effluent Flow (gpm) ²	RW-2 (gpm) ³	RW-4 (gpm) ⁴	RW-5 (gpm) ⁵	pH ⁶	Comments
11/30/2015	0	0	0	0	0	8.0	Performed maintenance on transfer pumps TP-201 and TP-202; observed and removed scale deposits inside both transfer pumps.
Monthly Average	191	195	56	106	32	7.9	

Notes:

gpm = gallons per minute.

¹ = Recorded from instrument FIT-101

² = Recorded from instrument FIT-301

³ = Recorded from instrument RW2 FIT

⁴ = Recorded from instrument RW4 FIT

⁵ = Recorded from instrument RW5 FIT

⁶ = Recorded from instrument pHIT-201A

Table 2
Summary of Treatment System Laboratory Analytical Results
November 2015
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Fibers Groundwater Extraction and Treatment System

Laboratory analytical results for water samples collected at the influent and effluent sample tap locations from the Fibers Groundwater Extraction and Treatment System on November 2, 2015 are presented below. The system average flow rate at the time the samples were collected was 336 gallons per minute (gpm). Sample results indicate that the treatment system is operating in compliance with operating parameters pursuant to the Consent Decree.

Compound	VOC (µg/L)			
	Sample ID			
	EFF-20151102	EFFDUP-20151102	INF-20151102	TB-20151102
Tetrachloroethene	ND	ND	7.4	ND
Enflurane	ND	ND	2.7	ND
Haloether 229	ND	ND	37.4	ND
Haloether 406	ND	ND	2.0	ND
Haloether 508	ND	ND	88.7	ND
Haloether 528	ND	ND	2.1	ND
Halomar	ND	ND	1.9	ND
Isoflurane	ND	ND	142	ND
Total Haloethers	ND	ND	277	ND
Acetone	ND	ND	ND	17.5
Other VOC	ND	ND	ND	ND

Notes:

VOC = volatile organic compounds.

µg/L = micrograms per liter.

EFF = effluent sample.

EFFDUP = effluent duplicate sample.

INF = influent sample.

TB = trip blank.

ND = not detected at or above laboratory reporting limit.

Figures

Figure 1
Fibers Public Supply Wells Superfund Site
Summary of Treatment System Flow Rates

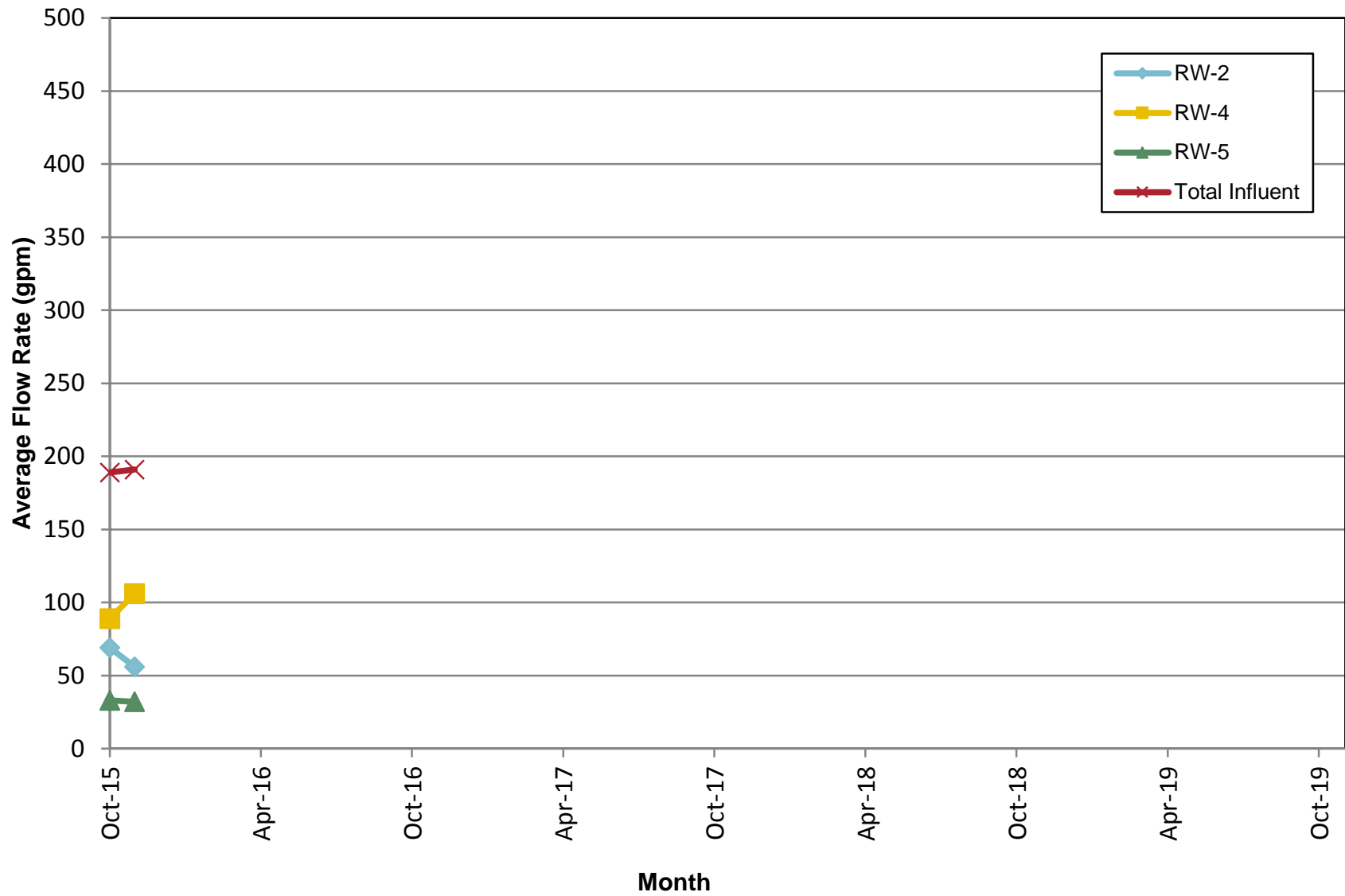


Figure 2
Fibers Public Supply Wells Superfund Site
Treatment System Influent -
Tetrachloroethene (PCE) Concentrations

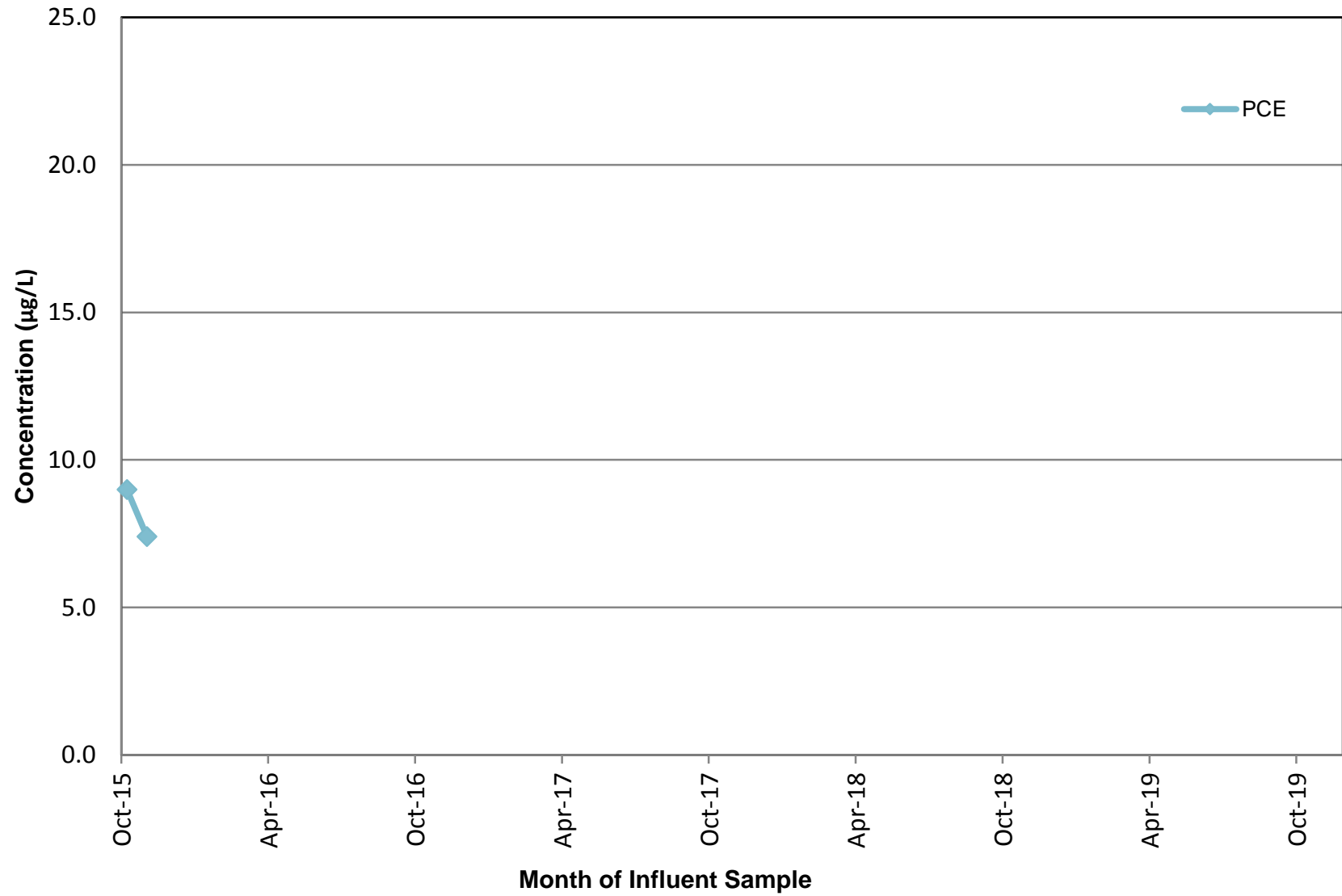
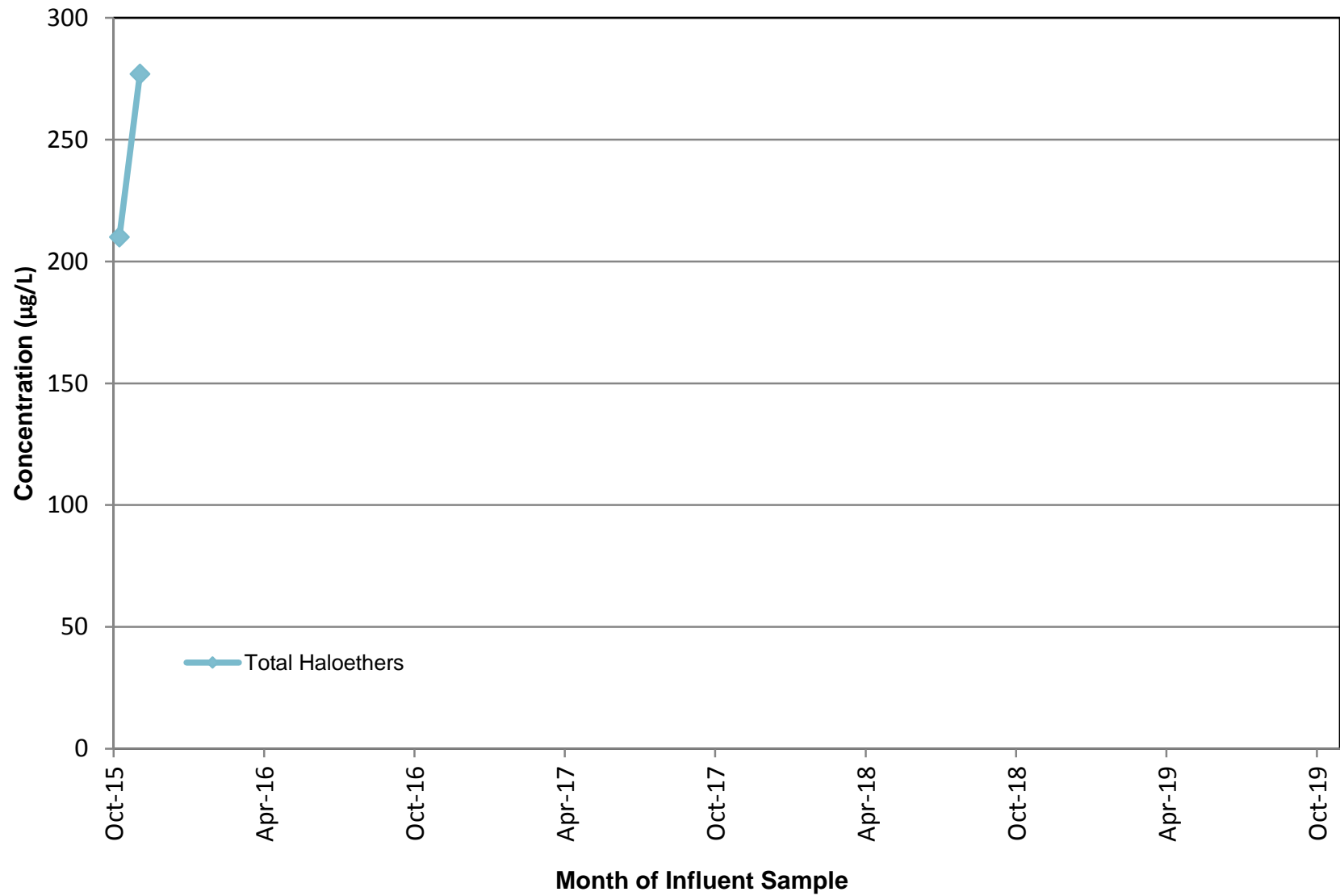


Figure 3
Fibers Public Supply Wells Superfund Site
Treatment System Influent -
Total Haloethers Concentrations



Attachment 1
Data Review Report

Fibers Group

Data Review

GUAYAMA, PUERTO RICO

Volatiles Analyses

SDG #2028005

Analyses Performed By:
Pace Analytical Services, Inc.
New Orleans, Louisiana

Report: #24582R

Review Level: Tier II

Project: CO001911.0002.1507A

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #2028005 for samples collected in association with the Fibers Group Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
TB-20151102	2028005001	Water	11/02/2015		X				
INF-20151102	2028005002	Water	11/02/2015		X				
EFF-20151102	2028005003	Water	11/02/2015		X				
EFFDUP-20151102	2028005004	Water	11/02/2015	EFF-20151102	X				

Note:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample location EFF-20151102.

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

s.u. Standard units

All samples were analyzed within acceptable holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the reporting limit (RL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the RL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
EFF-20151102/ EFFDUP-20151102	All compounds	U	U	AC

AC Acceptable
NC Not compliant

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment/Field blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) Accuracy (%R)		X		X	
Laboratory Control Sample Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision RPD		X		X	
Field/Laboratory Duplicate Sample RPD		X		X	
Surrogate Spike %R		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R Percent recovery
 RPD Relative percent difference
 %RSD Relative standard deviation
 %D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:



DATE: November 10, 2015

PEER REVIEW: Dennis Capria

DATE: November 12, 2015

**CHAIN OF CUSTODY/
ANNOTATED SAMPLE ANALYSIS DATA SHEETS**

ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS
Pace Project No.: 2028005

Sample: TB-20151102		Lab ID: 2028005001		Collected: 11/02/15 00:00		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	17.5	ug/L	4.0	1		11/06/15 13:51	67-64-1		
Acrolein	ND	ug/L	8.0	1		11/06/15 13:51	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		11/06/15 13:51	107-13-1		
Benzene	ND	ug/L	1.0	1		11/06/15 13:51	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 13:51	75-27-4		
Bromoform	ND	ug/L	1.0	1		11/06/15 13:51	75-25-2		
Bromomethane	ND	ug/L	1.0	1		11/06/15 13:51	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		11/06/15 13:51	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 13:51	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 13:51	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 13:51	108-90-7		
Chloroethane	ND	ug/L	1.0	1		11/06/15 13:51	75-00-3		
Chloroform	ND	ug/L	1.0	1		11/06/15 13:51	67-66-3		
Chloromethane	ND	ug/L	1.0	1		11/06/15 13:51	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 13:51	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		11/06/15 13:51	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 13:51	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 13:51	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:51	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:51	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:51	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 13:51	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 13:51	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 13:51	10061-02-6		
Enflurane	ND	ug/L	1.0	1		11/06/15 13:51	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 13:51	100-41-4		
Haloether 229	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 406	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 421	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 427	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 428	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 508	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 528	ND	ug/L	1.0	1		11/06/15 13:51			
Halomar	ND	ug/L	1.0	1		11/06/15 13:51			
2-Hexanone	ND	ug/L	2.0	1		11/06/15 13:51	591-78-6		
Isoflurane	ND	ug/L	1.0	1		11/06/15 13:51			
Methoxyflurane	ND	ug/L	1.0	1		11/06/15 13:51	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		11/06/15 13:51	75-09-2	--B--	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		11/06/15 13:51	108-10-1		
Styrene	ND	ug/L	1.0	1		11/06/15 13:51	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 13:51	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 13:51	127-18-4		
Toluene	ND	ug/L	1.0	1		11/06/15 13:51	108-88-3		
Total Haloether	ND	ug/L	1.0	1		11/06/15 13:51			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 13:51	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 13:51	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		11/06/15 13:51	79-01-6		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS
Pace Project No.: 2028005

Sample: TB-20151102		Lab ID: 2028005001		Collected: 11/02/15 00:00		Received: 11/03/15 08:45		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane		ND	ug/L	1.0	1		11/06/15 13:51	75-69-4	
1,2,3-Trichloropropane		ND	ug/L	1.0	1		11/06/15 13:51	96-18-4	
1,1,2-Trichlorotrifluoroethane		ND	ug/L	1.0	1		11/06/15 13:51	76-13-1	
Vinyl chloride		ND	ug/L	1.0	1		11/06/15 13:51	75-01-4	
m&p-Xylene		ND	ug/L	2.0	1		11/06/15 13:51	179601-23-1	
o-Xylene		ND	ug/L	1.0	1		11/06/15 13:51	95-47-6	
Surrogates									
Toluene-d8 (S)		102	%.	79-119	1		11/06/15 13:51	2037-26-5	
4-Bromofluorobenzene (S)		108	%.	68-124	1		11/06/15 13:51	460-00-4	
Dibromofluoromethane (S)		102	%.	72-126	1		11/06/15 13:51	1868-53-7	

Sample: INF-20151102		Lab ID: 2028005002		Collected: 11/02/15 12:12		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		11/06/15 14:09	67-64-1		
Acrolein	ND	ug/L	8.0	1		11/06/15 14:09	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		11/06/15 14:09	107-13-1		
Benzene	ND	ug/L	1.0	1		11/06/15 14:09	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 14:09	75-27-4		
Bromoform	ND	ug/L	1.0	1		11/06/15 14:09	75-25-2		
Bromomethane	ND	ug/L	1.0	1		11/06/15 14:09	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		11/06/15 14:09	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 14:09	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 14:09	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 14:09	108-90-7		
Chloroethane	ND	ug/L	1.0	1		11/06/15 14:09	75-00-3		
Chloroform	ND	ug/L	1.0	1		11/06/15 14:09	67-66-3		
Chloromethane	ND	ug/L	1.0	1		11/06/15 14:09	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 14:09	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		11/06/15 14:09	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 14:09	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 14:09	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:09	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:09	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:09	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 14:09	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 14:09	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 14:09	10061-02-6		
Enflurane	2.7	ug/L	1.0	1		11/06/15 14:09	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 14:09	100-41-4		
Haloether 229	37.4	ug/L	1.0	1		11/06/15 14:09			
Haloether 406	2.0	ug/L	1.0	1		11/06/15 14:09			
Haloether 421	ND	ug/L	1.0	1		11/06/15 14:09			
Haloether 427	ND	ug/L	1.0	1		11/06/15 14:09			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS
Pace Project No.: 2028005

Sample: INF-20151102		Lab ID: 2028005002		Collected: 11/02/15 12:12		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Haloether 428	ND	ug/L	1.0	1		11/06/15 14:09			
Haloether 508	88.7	ug/L	1.0	1		11/06/15 14:09			
Haloether 528	2.1	ug/L	1.0	1		11/06/15 14:09			
Halomar	1.9	ug/L	1.0	1		11/06/15 14:09			
2-Hexanone	ND	ug/L	2.0	1		11/06/15 14:09	591-78-6		
Isoflurane	142	ug/L	1.0	1		11/06/15 14:09			
Methoxyflurane	ND	ug/L	1.0	1		11/06/15 14:09	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		11/06/15 14:09	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		11/06/15 14:09	108-10-1		
Styrene	ND	ug/L	1.0	1		11/06/15 14:09	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 14:09	79-34-5		
Tetrachloroethene	7.4	ug/L	1.0	1		11/06/15 14:09	127-18-4		
Toluene	ND	ug/L	1.0	1		11/06/15 14:09	108-88-3		
Total Haloether	277	ug/L	1.0	1		11/06/15 14:09			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 14:09	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 14:09	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		11/06/15 14:09	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 14:09	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/06/15 14:09	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/06/15 14:09	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 14:09	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 14:09	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		11/06/15 14:09	95-47-6		
Surrogates									
Toluene-d8 (S)	104	%.	79-119	1		11/06/15 14:09	2037-26-5		
4-Bromofluorobenzene (S)	108	%.	68-124	1		11/06/15 14:09	460-00-4		
Dibromofluoromethane (S)	103	%.	72-126	1		11/06/15 14:09	1868-53-7		

Sample: EFF-20151102		Lab ID: 2028005003		Collected: 11/02/15 12:26		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		11/06/15 13:33	67-64-1		
Acrolein	ND	ug/L	8.0	1		11/06/15 13:33	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		11/06/15 13:33	107-13-1		
Benzene	ND	ug/L	1.0	1		11/06/15 13:33	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 13:33	75-27-4		
Bromoform	ND	ug/L	1.0	1		11/06/15 13:33	75-25-2		
Bromomethane	ND	ug/L	1.0	1		11/06/15 13:33	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		11/06/15 13:33	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 13:33	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 13:33	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 13:33	108-90-7		
Chloroethane	ND	ug/L	1.0	1		11/06/15 13:33	75-00-3		
Chloroform	ND	ug/L	1.0	1		11/06/15 13:33	67-66-3		

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ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS
Pace Project No.: 2028005

Sample: EFF-20151102		Lab ID: 2028005003		Collected: 11/02/15 12:26		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		11/06/15 13:33	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 13:33	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		11/06/15 13:33	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 13:33	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 13:33	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:33	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:33	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:33	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 13:33	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 13:33	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 13:33	10061-02-6		
Enflurane	ND	ug/L	1.0	1		11/06/15 13:33	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 13:33	100-41-4		
Haloether 229	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 406	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 421	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 427	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 428	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 508	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 528	ND	ug/L	1.0	1		11/06/15 13:33			
Halomar	ND	ug/L	1.0	1		11/06/15 13:33			
2-Hexanone	ND	ug/L	2.0	1		11/06/15 13:33	591-78-6		
Isoflurane	ND	ug/L	1.0	1		11/06/15 13:33			
Methoxyflurane	ND	ug/L	1.0	1		11/06/15 13:33	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		11/06/15 13:33	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		11/06/15 13:33	108-10-1		
Styrene	ND	ug/L	1.0	1		11/06/15 13:33	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 13:33	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 13:33	127-18-4		
Toluene	ND	ug/L	1.0	1		11/06/15 13:33	108-88-3		
Total Haloether	ND	ug/L	1.0	1		11/06/15 13:33			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 13:33	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 13:33	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		11/06/15 13:33	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 13:33	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/06/15 13:33	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/06/15 13:33	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 13:33	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 13:33	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		11/06/15 13:33	95-47-6		
Surrogates									
Toluene-d8 (S)	103	%	79-119	1		11/06/15 13:33	2037-26-5		
4-Bromofluorobenzene (S)	107	%	68-124	1		11/06/15 13:33	460-00-4		
Dibromofluoromethane (S)	102	%	72-126	1		11/06/15 13:33	1868-53-7		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS
Pace Project No.: 2028005

Sample: EFFDUP-20151102		Lab ID: 2028005004	Collected: 11/02/15 12:26	Received: 11/03/15 08:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260						
Acetone	ND	ug/L	4.0	1		11/06/15 14:27	67-64-1	
Acrolein	ND	ug/L	8.0	1		11/06/15 14:27	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		11/06/15 14:27	107-13-1	
Benzene	ND	ug/L	1.0	1		11/06/15 14:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 14:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/06/15 14:27	75-25-2	
Bromomethane	ND	ug/L	1.0	1		11/06/15 14:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		11/06/15 14:27	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 14:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 14:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 14:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/15 14:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/15 14:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/15 14:27	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 14:27	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		11/06/15 14:27	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 14:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 14:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 14:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 14:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 14:27	10061-02-6	
Enflurane	ND	ug/L	1.0	1		11/06/15 14:27	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 14:27	100-41-4	
Haloether 229	ND	ug/L	1.0	1		11/06/15 14:27		
Haloether 406	ND	ug/L	1.0	1		11/06/15 14:27		
Haloether 421	ND	ug/L	1.0	1		11/06/15 14:27		
Haloether 427	ND	ug/L	1.0	1		11/06/15 14:27		
Haloether 428	ND	ug/L	1.0	1		11/06/15 14:27		
Haloether 508	ND	ug/L	1.0	1		11/06/15 14:27		
Haloether 528	ND	ug/L	1.0	1		11/06/15 14:27		
Halomar	ND	ug/L	1.0	1		11/06/15 14:27		
2-Hexanone	ND	ug/L	2.0	1		11/06/15 14:27	591-78-6	
Isoflurane	ND	ug/L	1.0	1		11/06/15 14:27		
Methoxyflurane	ND	ug/L	1.0	1		11/06/15 14:27	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		11/06/15 14:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		11/06/15 14:27	108-10-1	
Styrene	ND	ug/L	1.0	1		11/06/15 14:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 14:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 14:27	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/15 14:27	108-88-3	
Total Haloether	ND	ug/L	1.0	1		11/06/15 14:27		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 14:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 14:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/06/15 14:27	79-01-6	

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ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS
Pace Project No.: 2028005

Sample: EFFDUP-20151102		Lab ID: 2028005004		Collected: 11/02/15 12:26		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 14:27	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/06/15 14:27	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/06/15 14:27	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 14:27	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 14:27	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		11/06/15 14:27	95-47-6		
Surrogates									
Toluene-d8 (S)	104	%.	79-119	1		11/06/15 14:27	2037-26-5		
4-Bromofluorobenzene (S)	106	%.	68-124	1		11/06/15 14:27	460-00-4		
Dibromofluoromethane (S)	102	%.	72-126	1		11/06/15 14:27	1868-53-7		

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Attachment 2
Laboratory Analytical Report

November 09, 2015

David Howard
ARCADIS
410 North 44th St.
Suite 1000
Phoenix, AZ 85008

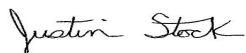
RE: Project: FIBERS GROUP SUPPLY WELLS
Pace Project No.: 2028005

Dear David Howard:

Enclosed are the analytical results for sample(s) received by the laboratory on November 03, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Justin L. Stock
justin.stock@pacelabs.com
Project Manager

Enclosures

cc: Janisse Diaz, Arcadis
Cassandra McCloud
Marla Miller, ARCADIS U.S.
Monica Rappaport, ARCADIS
Elvin Varela, ARCADIS



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch:
11277CA

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):

02006

Pennsylvania Dept. of Env Protection (NELAC): 68-04202

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-

00119

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SAMPLE SUMMARY

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2028005001	TB-20151102	Water	11/02/15 00:00	11/03/15 08:45
2028005002	INF-20151102	Water	11/02/15 12:12	11/03/15 08:45
2028005003	EFF-20151102	Water	11/02/15 12:26	11/03/15 08:45
2028005004	EFFDUP-20151102	Water	11/02/15 12:26	11/03/15 08:45

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SAMPLE ANALYTE COUNT

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2028005001	TB-20151102	EPA 5030B/8260	MLS	56	PASI-N
2028005002	INF-20151102	EPA 5030B/8260	MLS	56	PASI-N
2028005003	EFF-20151102	EPA 5030B/8260	MLS	56	PASI-N
2028005004	EFFDUP-20151102	EPA 5030B/8260	MLS	56	PASI-N

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PROJECT NARRATIVE

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

Method: EPA 5030B/8260

Description: 8260 MSV HALOETHERS

Client: ARCADIS

Date: November 09, 2015

General Information:

4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

Sample: TB-20151102		Lab ID: 2028005001		Collected: 11/02/15 00:00		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	17.5	ug/L	4.0	1		11/06/15 13:51	67-64-1		
Acrolein	ND	ug/L	8.0	1		11/06/15 13:51	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		11/06/15 13:51	107-13-1		
Benzene	ND	ug/L	1.0	1		11/06/15 13:51	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 13:51	75-27-4		
Bromoform	ND	ug/L	1.0	1		11/06/15 13:51	75-25-2		
Bromomethane	ND	ug/L	1.0	1		11/06/15 13:51	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		11/06/15 13:51	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 13:51	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 13:51	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 13:51	108-90-7		
Chloroethane	ND	ug/L	1.0	1		11/06/15 13:51	75-00-3		
Chloroform	ND	ug/L	1.0	1		11/06/15 13:51	67-66-3		
Chloromethane	ND	ug/L	1.0	1		11/06/15 13:51	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 13:51	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		11/06/15 13:51	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 13:51	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 13:51	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:51	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:51	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:51	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 13:51	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 13:51	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 13:51	10061-02-6		
Enflurane	ND	ug/L	1.0	1		11/06/15 13:51	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 13:51	100-41-4		
Haloether 229	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 406	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 421	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 427	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 428	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 508	ND	ug/L	1.0	1		11/06/15 13:51			
Haloether 528	ND	ug/L	1.0	1		11/06/15 13:51			
Halomar	ND	ug/L	1.0	1		11/06/15 13:51			
2-Hexanone	ND	ug/L	2.0	1		11/06/15 13:51	591-78-6		
Isoflurane	ND	ug/L	1.0	1		11/06/15 13:51			
Methoxyflurane	ND	ug/L	1.0	1		11/06/15 13:51	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		11/06/15 13:51	75-09-2	B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		11/06/15 13:51	108-10-1		
Styrene	ND	ug/L	1.0	1		11/06/15 13:51	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 13:51	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 13:51	127-18-4		
Toluene	ND	ug/L	1.0	1		11/06/15 13:51	108-88-3		
Total Haloether	ND	ug/L	1.0	1		11/06/15 13:51			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 13:51	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 13:51	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		11/06/15 13:51	79-01-6		

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ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

Sample: TB-20151102		Lab ID: 2028005001		Collected: 11/02/15 00:00		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 13:51	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/06/15 13:51	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/06/15 13:51	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 13:51	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 13:51	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		11/06/15 13:51	95-47-6		
Surrogates									
Toluene-d8 (S)	102	%.	79-119	1		11/06/15 13:51	2037-26-5		
4-Bromofluorobenzene (S)	108	%.	68-124	1		11/06/15 13:51	460-00-4		
Dibromofluoromethane (S)	102	%.	72-126	1		11/06/15 13:51	1868-53-7		

Sample: INF-20151102		Lab ID: 2028005002		Collected: 11/02/15 12:12		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		11/06/15 14:09	67-64-1		
Acrolein	ND	ug/L	8.0	1		11/06/15 14:09	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		11/06/15 14:09	107-13-1		
Benzene	ND	ug/L	1.0	1		11/06/15 14:09	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 14:09	75-27-4		
Bromoform	ND	ug/L	1.0	1		11/06/15 14:09	75-25-2		
Bromomethane	ND	ug/L	1.0	1		11/06/15 14:09	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		11/06/15 14:09	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 14:09	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 14:09	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 14:09	108-90-7		
Chloroethane	ND	ug/L	1.0	1		11/06/15 14:09	75-00-3		
Chloroform	ND	ug/L	1.0	1		11/06/15 14:09	67-66-3		
Chloromethane	ND	ug/L	1.0	1		11/06/15 14:09	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 14:09	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		11/06/15 14:09	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 14:09	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 14:09	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:09	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:09	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:09	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 14:09	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 14:09	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 14:09	10061-02-6		
Enflurane	2.7	ug/L	1.0	1		11/06/15 14:09	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 14:09	100-41-4		
Haloether 229	37.4	ug/L	1.0	1		11/06/15 14:09			
Haloether 406	2.0	ug/L	1.0	1		11/06/15 14:09			
Haloether 421	ND	ug/L	1.0	1		11/06/15 14:09			
Haloether 427	ND	ug/L	1.0	1		11/06/15 14:09			

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ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

Sample: INF-20151102		Lab ID: 2028005002		Collected: 11/02/15 12:12		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Haloether 428	ND	ug/L	1.0	1		11/06/15 14:09			
Haloether 508	88.7	ug/L	1.0	1		11/06/15 14:09			
Haloether 528	2.1	ug/L	1.0	1		11/06/15 14:09			
Halomar	1.9	ug/L	1.0	1		11/06/15 14:09			
2-Hexanone	ND	ug/L	2.0	1		11/06/15 14:09	591-78-6		
Isoflurane	142	ug/L	1.0	1		11/06/15 14:09			
Methoxyflurane	ND	ug/L	1.0	1		11/06/15 14:09	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		11/06/15 14:09	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		11/06/15 14:09	108-10-1		
Styrene	ND	ug/L	1.0	1		11/06/15 14:09	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 14:09	79-34-5		
Tetrachloroethene	7.4	ug/L	1.0	1		11/06/15 14:09	127-18-4		
Toluene	ND	ug/L	1.0	1		11/06/15 14:09	108-88-3		
Total Haloether	277	ug/L	1.0	1		11/06/15 14:09			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 14:09	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 14:09	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		11/06/15 14:09	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 14:09	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/06/15 14:09	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/06/15 14:09	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 14:09	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 14:09	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		11/06/15 14:09	95-47-6		
Surrogates									
Toluene-d8 (S)	104	%.	79-119	1		11/06/15 14:09	2037-26-5		
4-Bromofluorobenzene (S)	108	%.	68-124	1		11/06/15 14:09	460-00-4		
Dibromofluoromethane (S)	103	%.	72-126	1		11/06/15 14:09	1868-53-7		

Sample: EFF-20151102		Lab ID: 2028005003		Collected: 11/02/15 12:26		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		11/06/15 13:33	67-64-1		
Acrolein	ND	ug/L	8.0	1		11/06/15 13:33	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		11/06/15 13:33	107-13-1		
Benzene	ND	ug/L	1.0	1		11/06/15 13:33	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 13:33	75-27-4		
Bromoform	ND	ug/L	1.0	1		11/06/15 13:33	75-25-2		
Bromomethane	ND	ug/L	1.0	1		11/06/15 13:33	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		11/06/15 13:33	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 13:33	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 13:33	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 13:33	108-90-7		
Chloroethane	ND	ug/L	1.0	1		11/06/15 13:33	75-00-3		
Chloroform	ND	ug/L	1.0	1		11/06/15 13:33	67-66-3		

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ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

Sample: EFF-20151102		Lab ID: 2028005003		Collected: 11/02/15 12:26		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		11/06/15 13:33	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 13:33	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		11/06/15 13:33	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 13:33	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 13:33	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:33	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:33	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 13:33	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 13:33	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 13:33	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 13:33	10061-02-6		
Enflurane	ND	ug/L	1.0	1		11/06/15 13:33	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 13:33	100-41-4		
Haloether 229	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 406	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 421	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 427	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 428	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 508	ND	ug/L	1.0	1		11/06/15 13:33			
Haloether 528	ND	ug/L	1.0	1		11/06/15 13:33			
Halomar	ND	ug/L	1.0	1		11/06/15 13:33			
2-Hexanone	ND	ug/L	2.0	1		11/06/15 13:33	591-78-6		
Isoflurane	ND	ug/L	1.0	1		11/06/15 13:33			
Methoxyflurane	ND	ug/L	1.0	1		11/06/15 13:33	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		11/06/15 13:33	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		11/06/15 13:33	108-10-1		
Styrene	ND	ug/L	1.0	1		11/06/15 13:33	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 13:33	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 13:33	127-18-4		
Toluene	ND	ug/L	1.0	1		11/06/15 13:33	108-88-3		
Total Haloether	ND	ug/L	1.0	1		11/06/15 13:33			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 13:33	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 13:33	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		11/06/15 13:33	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 13:33	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/06/15 13:33	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/06/15 13:33	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 13:33	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 13:33	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		11/06/15 13:33	95-47-6		
Surrogates									
Toluene-d8 (S)	103	%.	79-119	1		11/06/15 13:33	2037-26-5		
4-Bromofluorobenzene (S)	107	%.	68-124	1		11/06/15 13:33	460-00-4		
Dibromofluoromethane (S)	102	%.	72-126	1		11/06/15 13:33	1868-53-7		

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ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

Sample: EFFDUP-20151102		Lab ID: 2028005004		Collected: 11/02/15 12:26		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		11/06/15 14:27	67-64-1		
Acrolein	ND	ug/L	8.0	1		11/06/15 14:27	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		11/06/15 14:27	107-13-1		
Benzene	ND	ug/L	1.0	1		11/06/15 14:27	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		11/06/15 14:27	75-27-4		
Bromoform	ND	ug/L	1.0	1		11/06/15 14:27	75-25-2		
Bromomethane	ND	ug/L	1.0	1		11/06/15 14:27	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		11/06/15 14:27	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		11/06/15 14:27	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		11/06/15 14:27	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		11/06/15 14:27	108-90-7		
Chloroethane	ND	ug/L	1.0	1		11/06/15 14:27	75-00-3		
Chloroform	ND	ug/L	1.0	1		11/06/15 14:27	67-66-3		
Chloromethane	ND	ug/L	1.0	1		11/06/15 14:27	74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		11/06/15 14:27	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		11/06/15 14:27	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/15 14:27	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/15 14:27	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:27	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:27	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/06/15 14:27	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/15 14:27	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 14:27	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/06/15 14:27	10061-02-6		
Enflurane	ND	ug/L	1.0	1		11/06/15 14:27	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		11/06/15 14:27	100-41-4		
Haloether 229	ND	ug/L	1.0	1		11/06/15 14:27			
Haloether 406	ND	ug/L	1.0	1		11/06/15 14:27			
Haloether 421	ND	ug/L	1.0	1		11/06/15 14:27			
Haloether 427	ND	ug/L	1.0	1		11/06/15 14:27			
Haloether 428	ND	ug/L	1.0	1		11/06/15 14:27			
Haloether 508	ND	ug/L	1.0	1		11/06/15 14:27			
Haloether 528	ND	ug/L	1.0	1		11/06/15 14:27			
Halomar	ND	ug/L	1.0	1		11/06/15 14:27			
2-Hexanone	ND	ug/L	2.0	1		11/06/15 14:27	591-78-6		
Isoflurane	ND	ug/L	1.0	1		11/06/15 14:27			
Methoxyflurane	ND	ug/L	1.0	1		11/06/15 14:27	76-38-0		
Methylene Chloride	ND	ug/L	5.0	1		11/06/15 14:27	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		11/06/15 14:27	108-10-1		
Styrene	ND	ug/L	1.0	1		11/06/15 14:27	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/15 14:27	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		11/06/15 14:27	127-18-4		
Toluene	ND	ug/L	1.0	1		11/06/15 14:27	108-88-3		
Total Haloether	ND	ug/L	1.0	1		11/06/15 14:27			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/15 14:27	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/06/15 14:27	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		11/06/15 14:27	79-01-6		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

Sample: EFFDUP-20151102		Lab ID: 2028005004		Collected: 11/02/15 12:26		Received: 11/03/15 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS		Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/15 14:27	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/06/15 14:27	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		11/06/15 14:27	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		11/06/15 14:27	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		11/06/15 14:27	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		11/06/15 14:27	95-47-6		
Surrogates									
Toluene-d8 (S)	104	%.	79-119	1		11/06/15 14:27	2037-26-5		
4-Bromofluorobenzene (S)	106	%.	68-124	1		11/06/15 14:27	460-00-4		
Dibromofluoromethane (S)	102	%.	72-126	1		11/06/15 14:27	1868-53-7		

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QUALITY CONTROL DATA

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

QC Batch: MSV/3976 Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV

Associated Lab Samples: 2028005001, 2028005002, 2028005003, 2028005004

METHOD BLANK: 173572 Matrix: Water

Associated Lab Samples: 2028005001, 2028005002, 2028005003, 2028005004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/06/15 11:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/06/15 11:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/06/15 11:06	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	11/06/15 11:06	
1,1-Dichloroethane	ug/L	ND	1.0	11/06/15 11:06	
1,1-Dichloroethene	ug/L	ND	1.0	11/06/15 11:06	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/06/15 11:06	
1,2-Dichloroethane	ug/L	ND	1.0	11/06/15 11:06	
1,2-Dichloropropane	ug/L	ND	1.0	11/06/15 11:06	
2-Butanone (MEK)	ug/L	ND	2.0	11/06/15 11:06	
2-Hexanone	ug/L	ND	2.0	11/06/15 11:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2.0	11/06/15 11:06	
Acetone	ug/L	ND	4.0	11/06/15 11:06	
Acrolein	ug/L	ND	8.0	11/06/15 11:06	
Acrylonitrile	ug/L	ND	4.0	11/06/15 11:06	
Benzene	ug/L	ND	1.0	11/06/15 11:06	
Bromodichloromethane	ug/L	ND	1.0	11/06/15 11:06	
Bromoform	ug/L	ND	1.0	11/06/15 11:06	
Bromomethane	ug/L	ND	1.0	11/06/15 11:06	
Carbon disulfide	ug/L	ND	1.0	11/06/15 11:06	
Carbon tetrachloride	ug/L	ND	1.0	11/06/15 11:06	
Chlorobenzene	ug/L	ND	1.0	11/06/15 11:06	
Chloroethane	ug/L	ND	1.0	11/06/15 11:06	
Chloroform	ug/L	ND	1.0	11/06/15 11:06	
Chloromethane	ug/L	ND	1.0	11/06/15 11:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/06/15 11:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/06/15 11:06	
Dibromochloromethane	ug/L	ND	1.0	11/06/15 11:06	
Dibromomethane	ug/L	ND	1.0	11/06/15 11:06	
Enflurane	ug/L	ND	1.0	11/06/15 11:06	
Ethylbenzene	ug/L	ND	1.0	11/06/15 11:06	
Haloether 229	ug/L	ND	1.0	11/06/15 11:06	
Haloether 406	ug/L	ND	1.0	11/06/15 11:06	
Haloether 421	ug/L	ND	1.0	11/06/15 11:06	
Haloether 427	ug/L	ND	1.0	11/06/15 11:06	
Haloether 428	ug/L	ND	1.0	11/06/15 11:06	
Haloether 508	ug/L	ND	1.0	11/06/15 11:06	
Haloether 528	ug/L	ND	1.0	11/06/15 11:06	
Halomar	ug/L	ND	1.0	11/06/15 11:06	
Isoflurane	ug/L	ND	1.0	11/06/15 11:06	
m&p-Xylene	ug/L	ND	2.0	11/06/15 11:06	

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QUALITY CONTROL DATA

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

METHOD BLANK: 173572

Matrix: Water

Associated Lab Samples: 2028005001, 2028005002, 2028005003, 2028005004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methoxyflurane	ug/L	ND	1.0	11/06/15 11:06	B,Z3
Methylene Chloride	ug/L	ND	5.0	11/06/15 11:06	
o-Xylene	ug/L	ND	1.0	11/06/15 11:06	
Styrene	ug/L	ND	1.0	11/06/15 11:06	
Tetrachloroethene	ug/L	ND	1.0	11/06/15 11:06	
Toluene	ug/L	ND	1.0	11/06/15 11:06	
Total Haloether	ug/L	ND	1.0	11/06/15 11:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/06/15 11:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/06/15 11:06	
Trichloroethene	ug/L	ND	1.0	11/06/15 11:06	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/15 11:06	
Vinyl chloride	ug/L	ND	1.0	11/06/15 11:06	
4-Bromofluorobenzene (S)	%	107	68-124	11/06/15 11:06	
Dibromofluoromethane (S)	%	103	72-126	11/06/15 11:06	
Toluene-d8 (S)	%	103	79-119	11/06/15 11:06	

LABORATORY CONTROL SAMPLE: 173573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.2	100	62-131	
1,1,2,2-Tetrachloroethane	ug/L	50	49.3	99	15-179	
1,1,2-Trichloroethane	ug/L	50	47.9	96	58-144	
1,1,2-Trichlorotrifluoroethane	ug/L	50	50.8	102	38-121	
1,1-Dichloroethane	ug/L	50	49.3	99	63-129	
1,1-Dichloroethene	ug/L	50	49.5	99	51-139	
1,2,3-Trichloropropane	ug/L	50	48.9	98	13-187	
1,2-Dichloroethane	ug/L	50	47.1	94	57-148	
1,2-Dichloropropane	ug/L	50	48.2	96	66-128	
2-Butanone (MEK)	ug/L	50	52.0	104	32-183	
2-Hexanone	ug/L	50	52.4	105	36-170	
4-Methyl-2-pentanone (MIBK)	ug/L	50	49.6	99	26-171	
Acetone	ug/L	50	52.0	104	22-165	
Acrolein	ug/L	100	82.8	83	10-131	
Acrylonitrile	ug/L	50	48.1	96	18-149	
Benzene	ug/L	50	54.8	110	62-131	
Bromodichloromethane	ug/L	50	45.4	91	69-132	
Bromoform	ug/L	50	47.3	95	35-166	
Bromomethane	ug/L	50	45.2	90	34-158	
Carbon disulfide	ug/L	50	47.2	94	31-128	
Carbon tetrachloride	ug/L	50	51.0	102	54-144	
Chlorobenzene	ug/L	50	48.4	97	70-127	
Chloroethane	ug/L	50	45.6	91	17-195	
Chloroform	ug/L	50	43.5	87	73-134	
Chloromethane	ug/L	50	37.5	75	17-153	

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QUALITY CONTROL DATA

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

LABORATORY CONTROL SAMPLE: 173573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	48.9	98	68-129	
cis-1,3-Dichloropropene	ug/L	50	51.5	103	72-138	
Dibromochloromethane	ug/L	50	44.1	88	49-146	
Dibromomethane	ug/L	50	50.5	101	56-145	
Enflurane	ug/L	50	49.5	99	56-135	
Ethylbenzene	ug/L	50	46.6	93	66-126	
Haloether 229	ug/L	50	40.4	81	62-123	
Haloether 406	ug/L	50	47.7	95	62-134	
Haloether 421	ug/L	50	50.9	102	70-128	
Haloether 427	ug/L	50	50.7	101	69-153	
Haloether 428	ug/L	50	51.0	102	70-134	
Haloether 508	ug/L	50	49.7	99	52-139	
Haloether 528	ug/L	50	55.3	111	48-157	
Halomar	ug/L	50	51.1	102	62-128	
Isoflurane	ug/L	50	49.0	98	61-132	
m&p-Xylene	ug/L	100	96.6	97	65-129	
Methoxyflurane	ug/L	50	52.7	105	72-124	
Methylene Chloride	ug/L	50	48.6	97	46-168	
o-Xylene	ug/L	50	49.1	98	65-124	
Styrene	ug/L	50	51.9	104	72-133	
Tetrachloroethene	ug/L	50	49.9	100	46-157	
Toluene	ug/L	50	51.0	102	69-126	
Total Haloether	ug/L		548			
trans-1,2-Dichloroethene	ug/L	50	48.4	97	60-129	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	59-149	
Trichloroethene	ug/L	50	49.0	98	67-132	
Trichlorofluoromethane	ug/L	50	52.4	105	39-171	
Vinyl chloride	ug/L	50	40.4	81	27-149	
4-Bromofluorobenzene (S)	%			104	68-124	
Dibromofluoromethane (S)	%			98	72-126	
Toluene-d8 (S)	%			102	79-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173574 173575

Parameter	Units	2028005003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	56.6	51.0	113	102	54-137	10	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	52.9	48.9	106	98	15-187	8	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.5	47.8	103	96	59-148	7	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	57.4	52.6	115	105	40-117	9	20	
1,1-Dichloroethane	ug/L	ND	50	50	55.4	50.0	111	100	59-133	10	20	
1,1-Dichloroethene	ug/L	ND	50	50	56.9	51.6	114	103	44-146	10	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	53.2	48.6	106	97	14-199	9	20	
1,2-Dichloroethane	ug/L	ND	50	50	51.3	47.7	103	95	56-154	7	20	
1,2-Dichloropropane	ug/L	ND	50	50	53.5	48.5	107	97	62-135	10	20	

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QUALITY CONTROL DATA

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173574 173575											
Parameter	Units	2028005003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	50	50	56.0	54.4	112	109	20-205	3	20
2-Hexanone	ug/L	ND	50	50	55.0	52.8	110	106	25-189	4	20
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	52.0	50.1	104	100	23-184	4	20
Acetone	ug/L	ND	50	50	55.9	53.8	107	103	11-217	4	20
Acrolein	ug/L	ND	100	100	98.7	83.0	99	83	10-142	17	20
Acrylonitrile	ug/L	ND	50	50	51.5	48.9	103	98	20-164	5	20
Benzene	ug/L	ND	50	50	61.6	55.0	123	110	52-141	11	20
Bromodichloromethane	ug/L	ND	50	50	49.8	45.6	100	91	70-134	9	20
Bromoform	ug/L	ND	50	50	50.1	47.7	100	95	37-171	5	20
Bromomethane	ug/L	ND	50	50	51.1	47.2	102	94	34-155	8	20
Carbon disulfide	ug/L	ND	50	50	59.7	51.2	119	102	28-130	15	20
Carbon tetrachloride	ug/L	ND	50	50	58.2	52.1	116	104	48-146	11	20
Chlorobenzene	ug/L	ND	50	50	53.7	48.6	107	97	67-129	10	20
Chloroethane	ug/L	ND	50	50	52.0	48.1	104	96	12-192	8	20
Chloroform	ug/L	ND	50	50	49.0	44.4	98	89	66-143	10	20
Chloromethane	ug/L	ND	50	50	42.2	38.5	84	77	14-155	9	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	54.9	49.5	110	99	56-141	10	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	56.3	52.0	113	104	70-139	8	20
Dibromochloromethane	ug/L	ND	50	50	47.3	44.1	95	88	50-150	7	20
Dibromomethane	ug/L	ND	50	50	54.7	50.3	109	101	58-153	8	20
Enflurane	ug/L	ND	50	50	54.8	49.3	110	99	63-126	11	20
Ethylbenzene	ug/L	ND	50	50	52.4	47.2	105	94	57-135	10	20
Haloether 229	ug/L	ND	50	50	45.7	46.0	91	92	56-127	0	20
Haloether 406	ug/L	ND	50	50	52.5	47.1	105	94	68-128	11	20
Haloether 421	ug/L	ND	50	50	55.5	49.5	111	99	74-120	11	20
Haloether 427	ug/L	ND	50	50	56.2	50.1	112	100	78-120	11	20
Haloether 428	ug/L	ND	50	50	56.5	50.9	113	102	74-125	10	20
Haloether 508	ug/L	ND	50	50	55.0	49.4	110	99	28-156	11	20
Haloether 528	ug/L	ND	50	50	59.4	53.4	119	107	45-142	11	20
Halomar	ug/L	ND	50	50	55.9	50.5	112	101	67-123	10	20
Isoflurane	ug/L	ND	50	50	54.6	48.5	109	97	45-140	12	20
m&p-Xylene	ug/L	ND	100	100	108	97.6	108	98	56-136	10	20
Methoxyflurane	ug/L	ND	50	50	56.8	51.3	114	103	75-119	10	20
Methylene Chloride	ug/L	ND	50	50	53.6	49.5	107	99	45-166	8	20
o-Xylene	ug/L	ND	50	50	55.5	50.0	111	100	57-133	11	20
Styrene	ug/L	ND	50	50	57.2	51.6	114	103	58-144	10	20
Tetrachloroethene	ug/L	ND	50	50	56.5	50.8	113	102	48-143	11	20
Toluene	ug/L	ND	50	50	57.0	51.2	114	102	59-136	11	20
Total Haloether	ug/L	ND			603	546				10	
trans-1,2-Dichloroethene	ug/L	ND	50	50	56.4	50.4	113	101	57-132	11	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	56.1	52.6	112	105	59-154	7	20
Trichloroethene	ug/L	ND	50	50	55.3	49.2	111	98	58-140	12	20
Trichlorofluoromethane	ug/L	ND	50	50	59.3	54.0	119	108	24-175	9	20
Vinyl chloride	ug/L	ND	50	50	46.3	41.9	93	84	21-150	10	20
4-Bromofluorobenzene (S)	%						106	104	68-124		

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QUALITY CONTROL DATA

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173574 173575											
Parameter	Units	2028005003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Dibromofluoromethane (S)	%.						100	99	72-126		
Toluene-d8 (S)	%.						102	102	79-119		

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QUALIFIERS

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

LABORATORIES

PASI-N Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

Z3 Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FIBERS GROUP SUPPLY WELLS

Pace Project No.: 2028005

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2028005001	TB-20151102	EPA 5030B/8260	MSV/3976		
2028005002	INF-20151102	EPA 5030B/8260	MSV/3976		
2028005003	EFF-20151102	EPA 5030B/8260	MSV/3976		
2028005004	EFFDUP-20151102	EPA 5030B/8260	MSV/3976		

REPORT OF LABORATORY ANALYSIS

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[illegible]Page: 1 of 1
1110025**Invoice Information:**

Company	ARCADIS U.S. Inc	Report To	David Howard	Attention:	ARCADIS Payette
Address	410 North 44th St. Suite 1000	Copy To:	Calvin Michael	Company Name	ARCADIS
	Phoenix, AZ 85008			Address:	
Email To:	David.Howard@arcadis.com	Purchase Order No.:	0000010002	Pace Quote Reference:	
Phone	602-797-4518	Project Name:	F.S. Risk Supply Wells	Pace Project Manager:	Justin Spink@payette.com
Fax	602-797-4518	Project Number:	0000010002	Pace Profile #:	113711
Requested Due Date/TAT:	Standard				

[illegible]

BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
------------------	------	------	---------------------------	------	------

人	人
---	---

SAMPLER NAME AND SIGNATURE		DATE SIGNED (MM/DD/YY)
PRINT Name of SAMPLER:	<i>Blair Wood</i>	11-02-15
SIGNATURE of SAMPLER:		



1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon Re

WO#: 2028005

PM: JLS

Due Date: 11/17/15

CLIENT: 20-CHEV-ARC ARCADIS

Project #: 20

Courier: ☐ Pace Courier ☐ Hired Courier ☒ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☒ Yes ☐ No

Thermometer
Used:

- ☐ Therm Fisher IR 5
☐ Therm Fisher IR 6
☒ Therm Fisher IR 7

Type of Ice:

Wet

Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining
contents: 11-4-15

Temp must be measured from Temperature blank when present

Comments:

Temperature Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	1
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2
Chain of Custody Complete:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8
Filtered vol. Rec. for Diss. tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10
All containers received within manufacture's precautionary and/or expiration dates.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15

If No, was preservative added? ☐ Yes ☐ No
If added record lot no.: HNO3 _____ H2SO4 _____

Client Notification/ Resolution:

Person Contacted:

Date/Time:

Comments/ Resolution:

Attachment 3
Sampling and Monitoring Field Form

Groundwater Extraction and Treatment System (GWETS) Sampling and Monitoring Field Form
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Collection Date	Sample ID	Collection Time	Sampler's Initials
02/11/15	JNF-20151102	1212	EB
02/11/15	EFF-20151102	1226	EB
02/11/15	EFFDUP-20151102	1226	EB
02/11/15	EFFMS-20151102	1226	EB
02/11/15	EFFMJD-20151102	1226	EB

GWETS Operational Data at Sample Collection

Extraction Wells

RW-2	117.5	gpm
RW-4	180.0	gpm
RW-5	53.6	gpm

Compound Treatment System

Influent Flow Rate (FIT-101)	336.2	gpm
Effluent Flow Rate (FIT-301)	372.1	gpm
Blower (FIT-201A)	2419	cfm
Influent Flow Pressure (PIT-101)	3.6	psi
Effluent Flow Pressure (PIT-301)	9.2	psi
pH (pHIT-201A)	8.1	

Notes:

gpm = gallons per minute
 cfm = cubic feet per minute
 psi = pounds per square inch